

# Louisiana Delta Community College

## Academic Affairs Master Syllabus

Date Approved or Revised: 10/28/09

Course Name: Introduction to Weather and Climate II  
Course Number: ATMO 102

Lecture Hours: 3

Lab Hours: 0

Credit Hours: 3

**Course Description:** Atmospheric Science (ATMO 102) 3 credit hours. This course will explore the dynamic atmosphere including topics of air masses, weather forecasting, and an in-depth view into severe weather and hurricanes. Climatology will also be discussed and debated as it pertains to current trends of global warming.  
Ahrens, C., *Meteorology Today*, 9<sup>th</sup> edition. Thomson Publishing

**Prerequisites:** None

**Co-requisites:** None

### **Learning Outcomes:**

On completion of this course, the student will be able to:

- A. Identify and explain major concepts in climatology and its various subtopics.
- B. Discuss orally and explain in writing how climate affects our everyday lives.
- C. Explain the importance of climate on society and the business world.
- D. Utilize the process skills and problem-solving skills to solve laboratory applications in climatology.
- E. Explain and give examples of the relationship of science, technology, and society.
- F. Analyze current global weather patterns and make rudimentary long-range forecasts based upon past climate history.
- G. Identify sub-climates and micro-climates and their causes.
- H. Identify sources and types of air pollution and meteorological interactions.

### **Assessment Measures:**

#### **Assessment**

1. Written examinations (100 points each)
2. Quizzes (announced and unannounced)
3. Class work points: problem solving and laboratory activities, individual and/or group projects, and class participation (up to 150 points).